

1631

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/502,984

DATE: 11/17/2000
 TIME: 14:58:44

Input Set : A:\A68126-1.app
 Output Set: N:\CRF3\11172000\I502984.raw

#4/ Raw
 Seq.
 Listing
 (OK)

ENTERED

3 <110> APPLICANT: Luo, Peizhi
 5 <120> TITLE OF INVENTION: STRUCTURE-BASED SCREENING TECHNIQUES FOR DRUG DISCOVERY
 7 <130> FILE REFERENCE: A-68126-1/RFT/RMS/RMK
 9 <140> CURRENT APPLICATION NUMBER: 09/502,984
 10 <141> CURRENT FILING DATE: 2000-02-11
 12 <150> PRIOR APPLICATION NUMBER: 60/120,009
 13 <151> PRIOR FILING DATE: 1999-02-11
 15 <150> PRIOR APPLICATION NUMBER: 60/131,674
 16 <151> PRIOR FILING DATE: 1999-04-29
 18 <160> NUMBER OF SEQ ID NOS: 36
 20 <170> SOFTWARE: PatentIn Ver. 2.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 225
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
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 29 1 5 10 15
 31 Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arg
 32 20 25 30
 34 Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val
 35 35 40 45
 37 Gly Pro Gly Asn Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp
 38 50 55 60
 40 Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg
 41 65 70 75 80
 43 Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu
 44 85 90 95
 46 Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val
 47 100 105 110
 49 Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val
 50 115 120 125
 52 Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro
 53 130 135 140
 55 Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val
 56 145 150 155 160
 58 Ser Ala Gly Asn Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu
 59 165 170 175
 61 Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr
 62 180 185 190
 64 Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe
 65 195 200 205
 67 Trp Ser Ala Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu
 68 210 215 220
 70 Asp
 71 225
 74 <210> SEQ ID NO: 2

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Input Set : A:\A68126-1.app
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75 <211> LENGTH: 211
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
79 <400> SEQUENCE: 2
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81   1           5           10           15
83 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
84           20           25           30
86 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr
87           35           40           45
89 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
90           50           55           60
92 Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
93   65           70           75           80
95 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
96           85           90           95
98 Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
99           100          105          110
101 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
102           115          120          125
104 Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
105           130          135          140
107 Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val
108 145           150          155          160
110 Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
111           165          170          175
113 Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala
114           180          185          190
116 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
117           195          200          205
119 Leu Leu Thr
120           210
123 <210> SEQ ID NO: 3
124 <211> LENGTH: 212
125 <212> TYPE: PRT
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
131 <400> SEQUENCE: 3
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133   1           5           10           15
135 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
136           20           25           30
138 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
139           35           40           45
141 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
142           50           55           60
144 Thr Ala Arg Gly Ala Ile Arg Ile Phe Trp Cys Ser Leu Pro Thr Ala
145   65           70           75           80

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147 Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser
148           85           90           95
150 Gly Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu
151           100          105          110
153 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly
154           115          120          125
156 His Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser
157           130          135          140
159 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser
160 145           150           155           160
162 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser
163           165          170          175
165 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met
166           180          185          190
168 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val
169           195          200          205
171 Ser Leu Leu Thr
172           210
175 <210> SEQ ID NO: 4
176 <211> LENGTH: 211
177 <212> TYPE: PRT
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
183 <400> SEQUENCE: 4
184 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
185 1           5           10           15
187 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu
188           20           25           30
190 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
191           35           40           45
193 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
194           50           55           60
196 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
197 65           70           75           80
199 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly
200           85           90           95
202 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
203           100          105          110
205 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
206           115          120          125
208 Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
209           130          135          140
211 Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser Val
212 145           150           155           160
214 Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
215           165          170          175
217 Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met Ala
218           180          185          190

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Input Set : A:\A68126-1.app
 Output Set: N:\CRF3\11172000\I502984.raw

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220 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
221      195      200      205
223 Leu Leu Thr
224      210
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228 <211> LENGTH: 211
229 <212> TYPE: PRT
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
235 <400> SEQUENCE: 5
236 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
237 1      5      10      15
239 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
240      20      25      30
242 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser Tyr
243      35      40      45
245 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
246      50      55      60
248 Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
249 65      70      75      80
251 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
252      85      90      95
254 Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
255      100      105      110
257 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
258      115      120      125
260 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
261      130      135      140
263 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val
264 145      150      155      160
266 Gln Arg Val Glu Leu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
267      165      170      175
269 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala
270      180      185      190
272 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
273      195      200      205
275 Leu Leu Thr
276      210
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280 <211> LENGTH: 211
281 <212> TYPE: PRT
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
287 <400> SEQUENCE: 6
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289 1      5      10      15
291 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Phe Glu

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Input Set : A:\A68126-1.app

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292          20          25          30
294 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
295          35          40          45
297 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
298          50          55          60
300 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
301 65          70          75          80
303 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Leu Thr Ala Ala Ser Gly
304          85          90          95
306 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
307          100          105          110
309 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
310          115          120          125
312 Val Val Ile Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His
313          130          135          140
315 Ile Arg Phe Glu Leu Asp Ile Ser Ala Gly Asn Gly Ala Gly Ser Val
316 145          150          155          160
318 Gln Arg Val Glu Leu Glu Gly Arg Thr Glu Cys Val Leu Ser Asn
319          165          170          175
321 Leu Arg Gly Arg Thr Arg Ile Thr Ile Ala Val Arg Ala Arg Met Ala
322          180          185          190
324 Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val Ser
325          195          200          205
327 Leu Leu Thr
328 210
331 <210> SEQ ID NO: 7
332 <211> LENGTH: 211
333 <212> TYPE: PRT
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
339 <400> SEQUENCE: 7
340 Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu Glu
341 1          5          10          15
343 Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp Glu
344          20          25          30
346 Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Phe Ser Phe Ser Phe
347          35          40          45
349 Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala Pro
350          50          55          60
352 Thr Ala Arg Gly Ala Ile Arg Phe Trp Cys Ser Leu Pro Thr Ala Asp
353 65          70          75          80
355 Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser Gly
356          85          90          95
358 Ala Pro Arg Phe His Arg Val Ile His Ile Asn Glu Val Val Leu Leu
359          100          105          110
361 Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly His
362          115          120          125
364 Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser His

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FYI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/502,984

DATE: 11/17/2000

TIME: 14:58:45

Input Set : A:\A68126-1.app

Output Set: N:\CRF3\11172000\I502984.raw

L:1542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30